

What is claimed is:

1. A drift eliminator comprising:  
a first plurality of air channel modules, each module comprising a plurality of air channels; and  
at least one planar sheet positioned between two of the air channel modules,  
wherein when air containing entrained water flows through the air channels, the air exiting the air channels contains less than about 0.01% entrained water by volume, wherein the air channel modules are formed by a series of undulating sheets, and wherein a last sheet of the first plurality of air channel modules is configured to nest in a primary sheet of a second plurality of air channel modules so that substantially no gap is formed between the first sheet and the second sheet.
2. The drift eliminator according to claim 1, wherein the air passing through the air channels travels in a non-linear path.
3. The drift eliminator according to claim 2, wherein the non-linear path has at least one portion which defines an upward direction.
4. The drift eliminator according to claim 1, wherein the series of undulating sheets comprises:  
a first plurality of sheets having an undulating shape creating a series of alternating peaks and troughs;  
a second plurality of sheets having an undulating shape creating a series of alternating peaks and troughs,  
wherein the sheets of the first and second pluralities of sheets of the first plurality of air channel modules are alternately stacked, and wherein the troughs of the sheets in the first and second pluralities of sheets of the first plurality of air channel modules abut each other, thereby creating the air channels between the peaks of the first and second pluralities of sheets of the first plurality of air channel modules.

5. The drift eliminator according to claim 4, further comprising:

a second plurality of air channel modules comprising:

a first plurality of sheets having an undulating shape creating a series of alternating peaks and troughs;

a second plurality of sheets having an undulating shape creating a series of alternating peaks and troughs,

wherein the sheets of the first and second pluralities of sheets of the second plurality of air channel modules are alternately stacked, and wherein the troughs of the sheets in the first and second pluralities of sheets of the second plurality of air channel modules abut each other, thereby creating the air channels between the peaks of the first and second pluralities of sheets of the second plurality of air channel modules.

6. The drift eliminator according to claim 5, wherein the last sheet of the first plurality of air channel modules is nested in the primary sheet of the second plurality of air channel modules.

7. The drift eliminator according to claim 5, further comprising:

at least one planar sheet positioned between two of the air channel modules in the second plurality of air channel modules.

8. The drift eliminator according to claim 7, wherein a planar sheet is between each of the air channel modules in the first plurality of air channel modules, and wherein a planar sheet is between each of the air channel modules second plurality of air channel modules.

9. The drift eliminator according to claim 8, wherein the last sheet of the first plurality of air channel modules is nested in the primary sheet of the second plurality of air channel modules.

10. The drift eliminator according to claim 6, wherein the last sheet of the first plurality of air channel modules and the primary sheet of the second plurality of air channel modules are effectively joined without being bonded, glued, sealed, or caulked.

11. The drift eliminator according to claim 10, wherein as a result of the last sheet of the first plurality of air channel modules being nested in the primary sheet of the second plurality of air channel modules, a substantially airtight seal is created between the last sheet of the first plurality of air channels and the primary sheet of the second plurality of air channels, provided that lateral movement of the first and second air channel modules is substantially inhibited.

12. The drift eliminator according to claim 1, wherein the air exiting the air channels contains less than about 0.005% entrained water by volume.

13. The drift eliminator according to claim 1, wherein the air channel modules are formed via a vacuum thermoforming process.

14. An apparatus comprising:

a first plurality of air channel modules comprising:

a first plurality of sheets having an undulating shape creating a series of alternating peaks and troughs;

a second plurality of sheets having an undulating shape creating a series of alternating peaks and troughs,

wherein the sheets of the first and second pluralities of sheets of the first plurality of air channel modules are alternately stacked, and wherein the troughs of the sheets in the first and second pluralities of sheets of the first plurality of air channel modules abut each other, thereby creating the air channels between the peaks of the first and second pluralities of sheets of the first plurality of air channel modules; and

a second plurality of air channel modules comprising:

a first plurality of sheets having an undulating shape creating a series of alternating peaks and troughs;

a second plurality of sheets having an undulating shape creating a series of alternating peaks and troughs,

wherein the sheets of the first and second pluralities of sheets of the second plurality of air channel modules are alternately stacked, and wherein the troughs of the sheets in the first and second pluralities of sheets of

the second plurality of air channel modules abut each other, thereby creating the air channels between the peaks of the first and second pluralities of sheets of the second plurality of air channel modules, wherein a last sheet of the first plurality of air channel modules is nested in a primary sheet of the second plurality of air channel modules such that substantially no gap is created between the last sheet and the primary sheet.

15. The apparatus according to claim 14, further comprising:

at least one planar sheet positioned between two of the air channel modules in the first plurality of air channel modules; and

at least one planar sheet positioned between two of the air channel modules in the second plurality of air channel modules.

16. The apparatus according to claim 14, wherein a planar sheet is between each of the air channel modules in the first plurality of air channel modules, and wherein a planar sheet is between each of the air channel modules second plurality of air channel modules.

17. The apparatus according to claim 14, wherein the air passing through the air channels travels in a non-linear path.

18. The apparatus according to claim 17, wherein the non-linear path has at least one portion which defines an upward direction.

19. The apparatus according to claim 14, wherein when air containing entrained water flows through the air channels in the first and second pluralities of air channel modules, the air which exits the first and second pluralities of air channel modules contains less than about 0.01% of water by volume.

20. The apparatus according to claim 19, wherein the air exiting the first and second plurality of air channels contains less than about 0.005% entrained water by volume.

21. The apparatus according to claim 14, wherein the air channels are configured such that substantially no light may pass through the air channels.

22. The apparatus according to claim 14, wherein the first and second pluralities of air channel modules are formed via a vacuum thermoforming process.

23. A method of forming an apparatus comprising the steps of:  
providing a first plurality of air channel modules, the first plurality of air channel modules having a last sheet;  
providing a second plurality of air channel modules, the second plurality of air channel modules having a primary sheet; and  
nesting the primary sheet in the last sheet such that substantially no gap is created between the primary sheet and the last sheet, thereby forming an apparatus.

24. The method according to claim 23, further comprising the step of:  
inputting water laden air into the apparatus; and  
exhausting air from the apparatus,  
wherein the exhausted air contains less than about 0.01% of water by volume.

25. The method according to claim 24, wherein the exhausted air contains less than about 0.005% of water by volume.

26. The method according to claim 23, wherein the first plurality of air channel modules comprises a plurality of sheets, and wherein the method further comprises the steps of:

thermoforming the plurality of sheets of the first plurality of air channels; or  
vacuum-forming the plurality of sheets of the first plurality of air channels.

27. The method according to claim 26, wherein the second plurality of air channel modules comprises a plurality of sheets, and wherein the method further comprises the steps of:

thermoforming the plurality of sheets of the second plurality of air channels; or  
vacuum-forming the plurality of sheets of the second plurality of air channels.

28. The method according to claim 23, wherein the apparatus is configured to be a drift eliminator or a light trap.

29. A method comprising the steps of:  
providing a first plurality of air channel modules, the first plurality of air channel modules having a last sheet;  
providing a second plurality of air channel modules, the second plurality of air channel modules having primary sheet;  
nesting the primary sheet in the last sheet such that substantially no gap is created between the primary sheet and the last sheet, thereby forming a drift eliminator;  
inputting water laden air through the drift eliminator; and  
exhausting air from the apparatus,  
wherein the exhausted air contains less than about 0.01% of water by volume.

30. The method according to claim 29, wherein the exhausted air contains less than about 0.005% of water by volume.

31. A light trap comprising:  
at least two air channel modules each comprising a plurality of sheets comprising at least a first sheet, a second sheet, and a third sheet,  
wherein each of the sheets comprises a series of troughs and peaks, wherein the sheets are arranged such that the troughs of the first sheet abut the troughs of the second sheet and the peaks of the second sheet abut the peaks of the third sheet, to create a plurality of air channels, and wherein the sheets are formed such that a last sheet of a first air channel module may be nested in a primary sheet of a second air channel module so that substantially no light may pass between the sheets or through the air channels.

32. The light trap according to claim 31, wherein the air channels comprises at least three turns or at least four turns.

33. The light trap according to claim 31, wherein the air channel modules are formed via a vacuum thermoforming process.

34. The light trap according to claim 31, wherein the light trap is configured to be used in a chicken house.